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## PATENT ABSTRACTS OF JAPAN

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(71) Applicant: MITSUI PETROCHEM IND LTD

(72) Inventor: HARA YASUHIRO  
YUKIMUNE TAKAHITO

(74) Representative:

### (54) PRODUCTION OF TAXANE TYPE DITERPENE

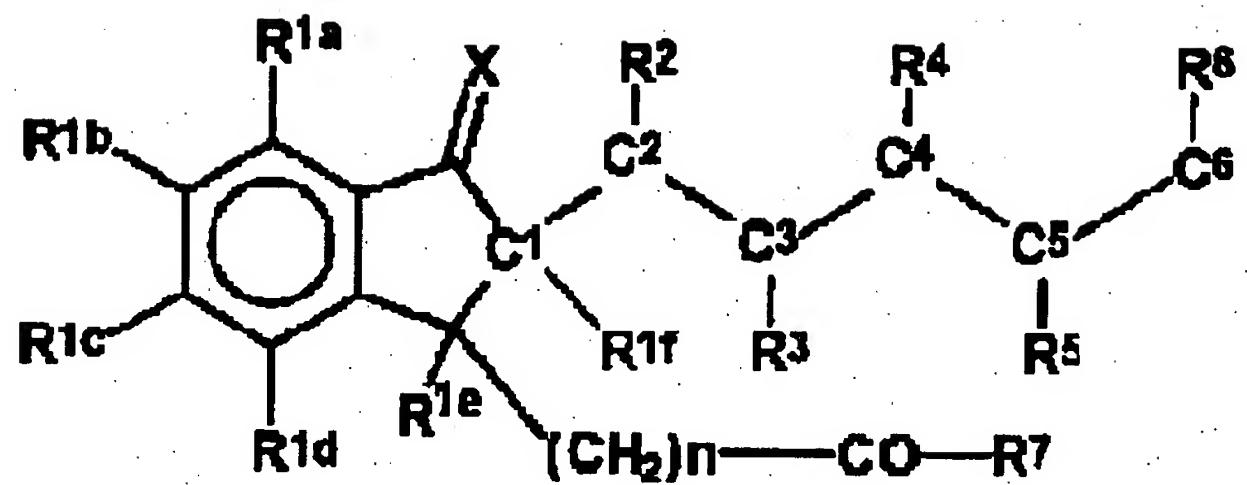
(57) Abstract:

**PROBLEM TO BE SOLVED:** To profitably obtain a taxane type diterpene useful for medicines for treating ovarian cancer, breast cancer, lung cancer, etc., by culturing the cells and tissues of a plant producing the taxane type diterpene in the presence of a specific compound and subsequently collecting the product from the obtained culture product.

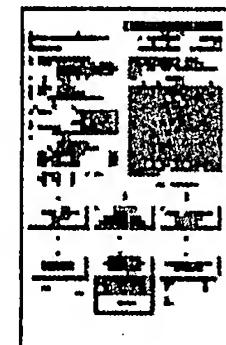
**SOLUTION:** A method for producing a taxane type diterpene comprises culturing the cells and/or tissues of a plant (e.g. *Taxus media*) producing the taxane type diterpene in the presence of a compound of the formula (R1a to R1b, R2 to R6 are each H, OH, a 1-12C alkyl, a 2-12C alkenyl, a 1-12C alkoxy, a 6-12C aryloxy, a  $\leq$ 12C (substituted) aryl, etc.; R7 is OH, OM [M is an alkali (alkaline earth) metal, NH4], NR8a, R8b (R8a, R8b are each H, a 1-12C acyl, a 1-12C alkyl, etc.,), OR9 (R9 is a 1-12C alkyl, a  $\leq$ 12C aryl, etc.,); X is O, N-Y (Y is H, OH, etc.,), OR11 (R11 is a 1-12C alkyl, a  $\leq$ 12C aryl, etc.,), etc.; n is 1-7), and subsequently recovering the product

from the obtained culture product.  
Thus, the objective taxane type  
diterpene is profitably obtained.

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YUKIMUNE TAKAHITO;**Assignee:** MITSUI PETROCHEM IND LTD  
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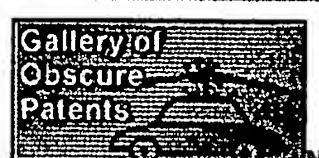
**Published / Filed:** March 4, 1997 / Aug. 22, 1995**Application Number:** JP1995000213121**IPC Code:** C12P 17/02; C12N 5/04; A61K 35/78;**Priority Number:** Aug. 22, 1995 JP1995000213121**Abstract:**

**PROBLEM TO BE SOLVED:** To profitably obtain a taxane type diterpene useful for medicines for treating ovarian cancer, breast cancer, lung cancer, etc., by culturing the cells and tissues of a plant producing the taxane type diterpene in the presence of a specific compound and subsequently collecting the product from the obtained culture product.

**SOLUTION:** A method for producing a taxane type diterpene comprises culturing the cells and/or tissues of a plant (e.g. *Taxus media*) producing the taxane type diterpene in the presence of a compound of the formula {R1a to R1b, R2 to R6 are each H, OH, a 1-12C alkyl, a 2-12C alkenyl, a 1-12C alkoxy, a 6-12C aryloxy, a  $\leq$  12C (substituted) aryl, etc.; R7 is OH, OM [M is an alkali (alkaline earth) metal, NH4], NR8a, R8b (R8a, R8b are each H, a 1-12C acyl, a 1-12C alkyl, etc.,), OR9 (R9 is a 1-12C alkyl, a  $\leq$  12C aryl, etc.,); X is O, N-Y (Y is H, OH, etc.,), OR11 (R11 is a 1-12C alkyl, a  $\leq$  12C aryl, etc.,), etc.; n is 1-7}, and subsequently recovering the product from the obtained culture product. Thus, the objective taxane type diterpene is profitably obtained.

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